

What is claimed is:

1. A method for displaying positions of home network appliances,
comprising:
5 generating an appliance identifier for indicating a type of each home
network appliance connected to a home network;
setting a position pointer for indicating a position of each home network
appliance; and
displaying the appliance identifier and the position pointer on a screen as
10 graphic objects.
2. The method of claim 1, wherein the appliance identifier indicates a
model name and a serial number of the home network appliance.
- 15 3. The method of claim 1, wherein the appliance identifier includes
an identifier for indicating a type of the home network appliance and an inherent
identifier for indicating a serial number of the home network appliance.
4. The method of claim 1, wherein the position pointer indicates
20 positions of the different types and the same type of home network appliances.
5. The method of claim 1, wherein the displaying step includes the
sub-steps of:
combining a graphic object corresponded to the appliance identifier with a
25 text object corresponded to the position pointer; and

displaying the combined object on the screen.

6. The method of claim 1, wherein the displaying step includes combining a graphic object corresponded to the appliance identifier with a text
5 object corresponded to the position pointer; and displaying the combined object on the screen in order to make a user easily recognize a home network appliance to control.

7. An apparatus for displaying positions of home network appliances,
10 comprising:

a means for generating an appliance identifier for indicating a type of a home network appliance connected to a home network;

a means for setting a position indicator for indicating a position of the home network appliance; and

15 a means for displaying the appliance identifier and the position indicator on a screen as graphic objects.

8. The apparatus of claim 7, wherein the appliance identifier indicates a model name and a serial number of the home network appliance.
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9. The apparatus of claim 7, wherein the appliance identifier includes an identifier for indicating a type of the home network appliance and an inherent identifier for indicating a serial number of the home network appliance.

25 10. The apparatus of claim 7, wherein the position pointer indicates

positions of the different types and the same type of home network appliances.

11. The apparatus of claim 7, wherein the displaying means combines
a graphic object corresponded to the appliance identifier with a text object
5 corresponded to the position pointer; and displays the combined object on the
screen.

12. The apparatus of claim 7, wherein the displaying means combines
a graphic object corresponded to the appliance identifier with a text object
10 corresponded to the position pointer; and displays the combined object on the
screen in order to make a user accurately recognize a home network appliance to
control.

13. An apparatus for displaying positions of home network appliances,
15 comprising:

an appliance identifier generating unit for generating an appliance
identifier by reading an appliance type identifier and an appliance inherent
identifier from appliance characteristics data stream transmitted from a home
network appliance and linking the appliance type identifier to the appliance
20 inherent identifier;

a position matching unit for setting a position pointer for indicating a
position of the home network appliance and matching the set position pointer with
the appliance identifier of the home network appliance corresponded to the
position pointer; and

25 a display unit for generating a text object for indicating the position pointer

matched to the appliance identifier, generating a graphic object for indicating the appliance identifier matched to the position indicator, generating a position indication object by combining the text object with the graphic object and displaying the position indication object on a screen.

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14. The apparatus of claim 13, wherein the appliance identifier generating unit includes:

a network interface module for receiving appliance characteristics data streams from the home network appliances;

10 a stream processing module for reading an appliance type identifier and a product inherent identifier from the received appliance characteristics data stream and generating an appliance identifier by linking the read appliance type identifier with the product inherent identifier;

a text library for storing the appliance identifier generated in the stream
15 processing module; and

a text processing module for adjusting a text size of the appliance identifier stored in the text library according to a preset font file.

15. The apparatus of claim 14, wherein the stream processing module
20 includes;

a preprocessor for parsing the appliance characteristics data stream received from the network interface module;

a buffer for storing the appliance characteristics data stream parsed in the preprocessor;

25 a buffer manager for storing the appliance characteristics data stream

parsed in the preprocessor in the buffer and outputting a register signal corresponded to the temporarily stored appliance characteristics data stream; and

a generator for reading the appliance type identifier and the product inherent identifier from the appliance characteristics data stream stored in the buffer according to the register signal outputted from the buffer manager and generating the appliance identifier by linking the read appliance type identifier to the product inherent identifier.

16. The apparatus of claim 15, wherein the position matching unit includes:

a position matching table set so as to record the appliance identifier according to a position pointer;

an indicating module for indicating the appliance identifier adjusted in the text processing module and the position pointer set in the position matching table;

a position matching module for matching the appliance identifier indicated by the indicating module to a pertinent position indicator according to a user operational key signal; and

a matching table managing module for distinguishing the home network appliances by recording the appliance identifier on the position matching table by the position indicator according to the information matched in the position matching module.

17. The apparatus of claim 13, wherein the displaying unit includes:

a position matching table set so as to match-record the appliance identifier according to the set position pointer;

a text library for storing a text object corresponded to the position pointer recorded in the position matching table;

a graphic library for storing a graphic object corresponded to the appliance identifier;

5 a matching table managing module for reading the appliance identifier matched to the pertinent position pointer by searching the position matching table according to a display request signal generated by the user;

 a library managing module for reading the graphic object for indicating the appliance identifier read in the matching table managing module from the graphic
10 library and the text object matched to the appliance identifier from the text library;

 a storing module for storing the text object and the graphic object read by the library managing module;

 a position indication object generating module for generating a position indicating object by combining the text object with the graphic object stored in the
15 storing module;

 a graphic display module for displaying the position indication object generated in the position indication object generating module on the screen through graphic-processing.